Specification

Solar Panel	Output 16V maximum; 12V nominal; 500mA maximum, connected to battery via solar shunt regulator.
Battery	16AH lead acid re-chargeable – maximum voltage from solar panel 13.8V via over-voltage protection provided by solar shunt regulator.
Visual Beacon	Flash rate – 1Hz
Oil Interceptor	Alarm Unit - intrinsically safe certified 12V DC unit VTT 02 ATEX 012X
EMC Emissions Immunity LVD	EN 61000-3 EN 61000-2 EN 61010-1
Test/Reset Button	IP67 mounted on side of enclosure. In Test Mode the button simulates an alarm condition and energises the visual beacon. In Reset mode the Green LED on alarm unit and flashing beacon come on for 20 seconds and then go off providing fault condition has been cleared.
Fuse 2A – 20mm;	During transportation the fuse should be removed to de-energise the system and conserve battery power.
Enclosure	Polycarbonate PC/ABS with transparent and lockable door (IP65).
Dimensions:	Electronic Enclosure : 400mm x 300mm x 200mm deep.
Overall Assembled Height	1.6 metres.
Assembled Weight	27.5kg.

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Declaration of Conformity

SOL 3000 Oil Interceptor Alarm

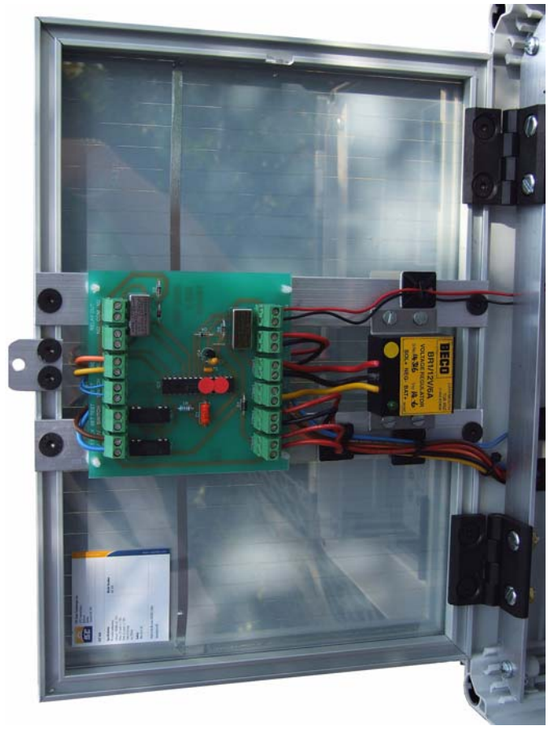
This is to certify that the above named product fully complies with the Electromagnetic Compatability Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC of the European Union and with the requirements of the normative sections of the following harmonised European Standards.

EN61000-3:	Electromagnetic Compatibility - Generic Emission Standard. Residential, Commercial and Light Industry.
EN61000-2:	Electromagnetic Compatibility - Generic Immunity Standard. Heavy Industry.
EN61010-1:	Safety requirements for electrical equipment for measurement, control and laboratory use.

Signed:

(D C Ward)
Position: Technical Services Manager,
Date: 13/07/2006

This declaration applies to the following part number(s):
2830 00 0000



The SOL-3000 is designed to monitor the level of liquid hydrocarbon in oil separators/ interceptors in locations where mains power is unavailable.

The system comprises an IP65 electronics housing containing the solar-powered circuitry, with an integral 10 metre cable, extendable to 300 metres, and a fail-safe sensor with no moving parts for mounting in the separator chamber.

A high intensity flashing beacon warns that the separator requires emptying.

Operation

An integral solar panel trickle-charges a heavy duty lead acid 16AH battery, which powers an intrinsically safe certified separator alarm unit.

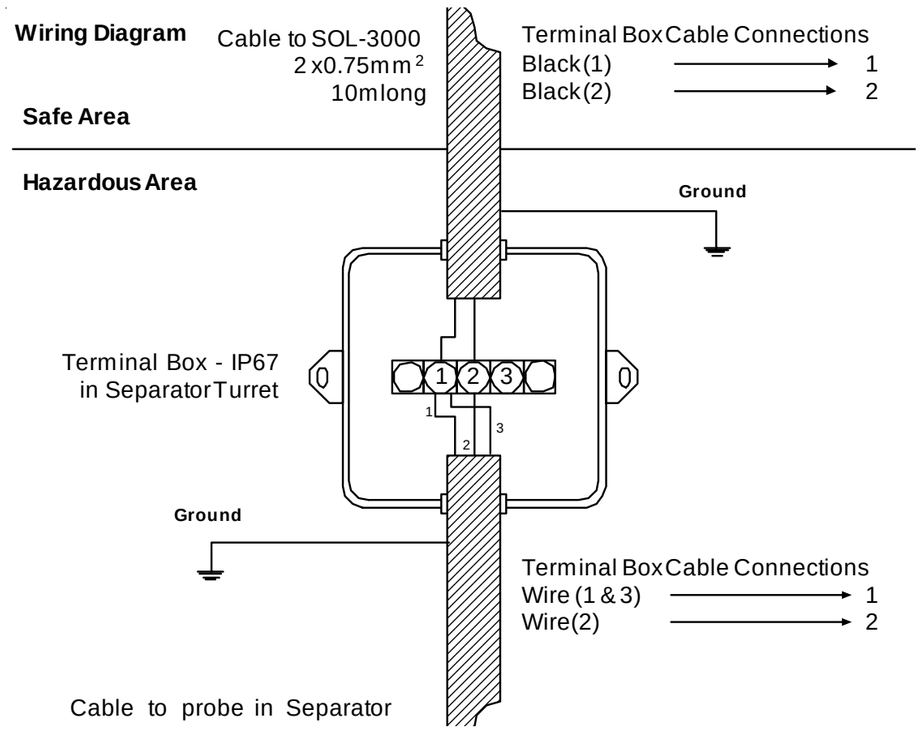
A Test/Reset button is provided that checks the correct functioning of the system, by simulating an alarm condition.

When the separator has been cleaned, the system can be reset by pressing the Test/Reset button. The system will 'self-check' for 20 seconds (beacon flashing) before returning to the normal condition.

To conserve battery power and prolong operating life, the alarm unit is activated for 20 seconds every 60 minutes. If an alarm condition is present, the high intensity beacon will flash, and continue to do so until the alarm condition is cleared. The battery has capacity for the unit to operate the beacon continuously for 7 days in poor light conditions.

Installation

Prior to installation the site contractor should provide a suitable concrete base with correctly spaced mounting studs set into the concrete base.
Insert the sensor into the separator using the access point provided by the separator manufacturer.
Under normal working conditions the sensor needs to be completely covered with water.
Run wires through a suitable duct to the junction box in the separator turret.
Orientate the pole until the solar panel is facing south.
Mount the complete assembly onto the concrete base and secure the fixing nuts.
Connect the wires from the unit to the junction box in the separator turret as per diagram below.
The green earth wire should be connected to the separator earth (where provided on the separator).



Commissioning

If the probe is immersed in water then after fitting the fuse, the green power LED and the flashing beacon will come on. After 20 seconds the green LED will go out and the beacon will stop flashing.

If the probe is not immersed in water then after fitting the fuse, the green power LED, the red alarm LED and the flashing beacon will come on. After 20 seconds the green LED and the red alarm LED will go out, but the beacon will continue to flash until the separator is filled to normal level with water.

Press the Test/Reset button and check that the green power LED on the alarm unit comes on, that the red alarm LED is lit, and that the beacon is flashing.

Fuse Holder Position

The system is now fully operational.

Maintenance and Test

It is recommended that the transparent cover of the electronics housing is periodically cleaned with a suitable cleaner (antistatic) to ensure that the solar panel always receives enough light to keep the battery fully charged.

The Test/Reset button should be operated at least once a month to ensure that the system is in full working order.

When a separator oil alarm condition is being cleared, the probe should be removed from the separator turret, cleaned and replaced.

When the oil has been drained from the separator and refilled with water, the Test/Reset button should be operated. The Green LED and the flashing beacon will come on for 20 seconds and then go off.
The unit is now fully operational.

Base Flange Fixing Hole Details